

Title (en)
Electronic endoscope

Title (de)
Elektronisches Endoskop

Title (fr)
Endoscope électronique

Publication
EP 2301417 B1 20130220 (EN)

Application
EP 10178758 A 20100923

Priority
• JP 2009225404 A 20090929
• JP 2010076461 A 20100329

Abstract (en)
[origin: EP2301417A1] An electronic endoscope includes an illumination unit, an imaging unit and an image generating unit. The illumination unit switches among plural light beams having different spectra so as to illuminate a subject. The light beams include white light and excitation light for exciting the subject to produce fluorescence. The imaging unit includes a solid-state imaging device, and an objective optical system. The objective optical system guides, to the solid-state imaging device, light returning from the subject which the illumination unit illuminates. The image generating unit generates image data based on image signals output from the imaging unit. The solid-state imaging device further includes a sensitivity adjusting unit that only lowers sensitivity, to the excitation light, of pixels which are sensitive to the fluorescence among a plurality of pixels of the solid-state imaging device. The light guided by the objective optical system is incident directly onto the solid-state imaging device.

IPC 8 full level
A61B 1/06 (2006.01); **A61B 1/04** (2006.01); **A61B 1/045** (2006.01); **A61B 1/05** (2006.01); **A61B 5/00** (2006.01)

CPC (source: EP US)
A61B 1/00186 (2013.01 - EP US); **A61B 1/043** (2013.01 - EP US); **A61B 1/045** (2013.01 - EP US); **A61B 1/063** (2013.01 - EP US);
A61B 1/0638 (2013.01 - EP US); **A61B 1/0653** (2013.01 - EP US); **A61B 1/0655** (2022.02 - EP); **A61B 5/0071** (2013.01 - EP US);
A61B 5/0084 (2013.01 - EP US)

Cited by
CN103356167A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2301417 A1 20110330; EP 2301417 B1 20130220; JP 2011092683 A 20110512; JP 5371858 B2 20131218; US 2011074942 A1 20110331;
US 8767059 B2 20140701

DOCDB simple family (application)
EP 10178758 A 20100923; JP 2010076461 A 20100329; US 89271210 A 20100928